

AMENDMENTS TO THE CLAIMS

1. (Original) An information recording device comprising a controller that adjusts recording conditions including a bit rate of time series data when recording a content in an information recording medium,

wherein the controller includes an index information group creating unit that creates a time sequence index information group in which index information items extracted from the time series data for locating particular points of the content are arranged in time sequence of the time series data, and

a reverse time sequence index information group in which the index information items are arranged in reverse time sequence of the time series data; and

an index information group recording unit that records the time sequence index information group and the reverse time sequence index information group created by the index information group creating unit into an area of the information recording medium different from an area where the time series data are recorded.

2. (Original) The information recording device as claimed in claim 1, wherein the index information group creating unit acquires, as the index information items, a plurality of image data items representing a plurality of images that are extracted from the time series data every predetermined time.

3. (Original) The information recording device as claimed in claim 1, wherein when the content recorded in the form of the time series data is reproduced, the index information group creating unit extracts, as the index information items, a plurality of image data items representing a plurality of images that are selected, according to a predetermined instruction, from images that change with time.

4. (Original) The information recording device as claimed in claim 1, wherein the index information group recording unit records the time sequence index information group and the reverse time sequence index information group into an area adjacent to the area where the time series data are recorded.

5. (Original) The information recording device as claimed in claim 1, wherein the index information group recording unit records the time sequence index information group and the reverse time sequence index information group into an area adjacent to a Lead-In area or a Lead-Out area of the information recording medium.

6. (Original) The information recording device as claimed in claim 1, wherein the index information group recording unit records the time sequence index information group and the reverse time sequence index information group into a predetermined area of another information recording medium different from the information recording medium in which the time series data are recorded.

Claims 7-9 (Canceled)

10. (Original) An information recording method that records a content in the form of time series data in an information recording medium and reproduces particular points of the content, comprising:

an index information group creating step of creating a time sequence index information group in which index information items extracted from the time series data for locating the particular points of the content are arranged in time sequence of the time series data, and

a reverse time sequence index information group in which the index information items are arranged in reverse time sequence of the time series data; and

an index information group recording step of recording the time sequence index information group and the reverse time sequence index information group created in the index

information group creating step into an area of the information recording medium different from an area where the time series data are recorded.

11. (Original) The information recording method as claimed in claim 10, further comprising:

an index information acquiring step of acquiring, as the index information items,
a plurality of image data items representing a plurality of images that are extracted from the time series data every predetermined time.

12. (Original) The information recording method as claimed in claim 10, further comprising:

an index information extracting step of reproducing the content recorded in the form of the time series data, and extracting, as the index information items,

a plurality of image data items representing a plurality of images that are selected, according to a predetermined instruction, from images that change with time.

13. (Original) The information recording method as claimed in claim 10, wherein,

in the index information group creating step, the index information items are acquired every time the time series data are recorded in the information recording medium so as to create the index information groups; and

in the index information group recording step, the index information groups are recorded when creation of the index information groups is completed in the index information group creating step.

14. (Original) The information recording method as claimed in claim 13, wherein,

in the index information group recording step, the index information groups are recorded in a predetermined area of another information recording medium different from the information recording medium in which the time series data are recorded.